

REST Webservices in Java/SOAP Basics

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Code has been added as a separate folder.

DB: MySQL 8

Java 11

Endpoints:

1. Signup[POST]

<http://localhost:8080/api/user/signup>

Sample data

```
{
  "email" : "demo1@gmail.com",
  "password": "pass"
}
```

2. Send Message[POST]

<http://localhost:8080/api/message/add/{userId}>

Sample data

```
{
  "message" : "new demo message "
}
```

3. Login[GET] password - as header

<http://localhost:8080/api/user/login/{userId}>

4. Update User Email [PUT] password & new email - as header

<http://localhost:8080/api/user/updateEmail/{userId}>

5. Delete message[DELETE] password - as header

<http://localhost:8080/api/user/deleteMessage/{userId}/{messageId}>

6. Delete user[DELETE] password - as header

<http://localhost:8080/api/user/deleteUser/{userId}>

Screenshots:

1. Signup

The screenshot shows a REST client interface with a POST request to `http://localhost:8080/api/user/signup`. The request body is a JSON object: `{ "email": "ajay@gmail.com", "password": "pass123" }`. The response status is 200 OK, and the response body is a JSON object: `{ "id": 3, "emailId": "ajay@gmail.com", "password": "$2a$10$4n3g4FuYCF.q88pK9tydtuRXLdJ4sPxsd6PqLvb0H0Z1K5nUY6", "privateMessages": null }`.

2. Duplicate Email [signup]

The screenshot shows a REST client interface with a POST request to `http://localhost:8080/api/user/signup`. The request body is a JSON object: `{ "email": "ajay@gmail.com", "password": "pass123" }`. The response status is 409 Conflict, and the response body is the text `Duplicate Email`.

3. Sent message

The screenshot shows a REST client interface with a POST request to `http://localhost:8080/api/message/add/3`. The request body is a JSON object: `{ "message": "new demo message to ajay" }`. The response status is 200 OK, and the response body is a JSON object: `{ "id": 7, "message": "new demo message to ajay", "createTime": "2021-01-24T12:20:15.124+00:00", "userId": 3 }`.

```
POST http://localhost:8080/api/message/add/3
```

```
{
  "message": "new demo message to ajay"
}
```

Status: 200 OK Time: 168 ms Size: 266 B Save Response

```
{
  "id": 7,
  "message": "new demo message to ajay",
  "createTime": "2021-01-24T12:20:15.124+00:00",
  "userId": 3
}
```

4. User is not found [message]

The screenshot shows a REST client interface with a POST request to `http://localhost:8080/api/message/add/2`. The request body is a JSON object: `{ "message": "new demo message to ajay" }`. The response status is 404 Not Found, and the response body is the text `User not found`.

```
POST http://localhost:8080/api/message/add/2
```

```
{
  "message": "new demo message to ajay"
}
```

Status: 404 Not Found Time: 248 ms Size: 185 B Save Response

```
User not found
```

5. Login [user]

GET

http://localhost:8080/api/user/login/3

Send

Save

ParamsAuthorizationHeaders (7)BodyPre-request ScriptTestsSettings

Headers6 hidden

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> password	pass123	
Key	Value	Description

BodyCookiesHeaders (5)Test Results

PrettyRawPreviewVisualizeJSON

```
1 {
2   "id": 3,
3   "emailId": "ajay@gmail.com",
4   "password": "62a1106An3gwYuYcf.q88p09tydtu0XlxHj4sPxsDE6PqblvbbH0ZIK5nJY6",
5   "privateMessages": [
6     {
7       "id": 7,
8       "message": "new demo message to ajay",
9       "createdAt": "2021-01-24T12:20:15.124+00:00",
10      "userId": 3
11    }
12  ]
13 }
```

Status: 200 OKTime: 145 msSize: 396 BSave Response

6. Login failed [user]

GET

http://localhost:8080/api/user/login/2

Send

Save

ParamsAuthorizationHeaders (7)BodyPre-request ScriptTestsSettings

Headers6 hidden

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> password	pass	
Key	Value	Description

BodyCookiesHeaders (5)Test Results

PrettyRawPreviewVisualizeText

```
1 Invalid Credentials
```

Status: 417 Expectation FailedTime: 21 msSize: 199 BSave Response

7. Message delete[user]

DELETE

http://localhost:8080/api/user/deleteMessage/3/7

Send

Save

ParamsAuthorizationHeaders (7)BodyPre-request ScriptTestsSettings

Headers 6 hidden

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> password	pass123	
key	Value	Description

BodyCookiesHeaders (5)Test Results

Status: 200 OKTime: 281 msSize: 180 BSave Response

PrettyRawPreviewVisualizeText

1 Message deleted!

8. Delete message not found

DELETE

http://localhost:8080/api/user/deleteMessage/3/8

Send

Save

ParamsAuthorizationHeaders (7)BodyPre-request ScriptTestsSettings

Headers 6 hidden

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> password	pass123	
key	Value	Description

BodyCookiesHeaders (5)Test Results

Status: 404 Not FoundTime: 132 msSize: 189 BSave Response

PrettyRawPreviewVisualizeText

1 Message not found!

9. Delete user

DELETE

http://localhost:8080/api/user/deleteUser/3

Send

Save

Params Authorization Headers (7) Body Pre-request Script Tests Settings

Headers 6 hidden

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> password	pass123	
Key	Value	Description

Body Cookies Headers (5) Test Results

Status: 200 OK Time: 252 ms Size: 177 B Save Response

Pretty Raw Preview Visualize Text

1 User deleted!

10. User delete not found

DELETE

http://localhost:8080/api/user/deleteUser/2

Send

Save

Params Authorization Headers (7) Body Pre-request Script Tests Settings

Headers 6 hidden

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> password	pass	
Key	Value	Description

Body Cookies Headers (5) Test Results

Status: 417 Expectation Failed Time: 11 ms Size: 214 B Save Response

Pretty Raw Preview Visualize Text

1 Invalid Credentials/User not found

11. Update email

PUT

http://localhost:8080/api/user/updateEmail/3

Send

Save

Params

Authorization

Headers (9)

Body

Pre-request Script

Tests

Settings

Cookies

Code

Headers

7 hidden

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> password	pass123	
<input checked="" type="checkbox"/> email	ajaysr047@gmail.com	
Key	Value	Description

Body

Cookies

Headers (5)

Test Results

Status: 200 OK

Time: 125 ms

Size: 401 B

Save Response

Pretty

Raw

Preview

Visualize

JSON

```
1 {
2   "id": 3,
3   "emailId": "ajaysr047@gmail.com",
4   "password": "52a5195An3peTuYcf.q88p09tydsu0XlxNj4sPxsde6PqblvbbH0Zl5nJY6",
5   "privateMessages": [
6     {
7       "id": 3,
8       "message": "new demo message to ajoy",
9       "createTime": "2021-01-24T12:20:15.124+00:00",
10      "userId": 3
11    }
12  ]
13 }
```